

**LA-UR-18-31786**

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Intended for: Report

Issued: 2018-12-19

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# Analyzing the Effects of Water Output Rates on the Strategic Computing Complex

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Last Revision: 19 December, 2018



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## **1. Introduction and Background Information**

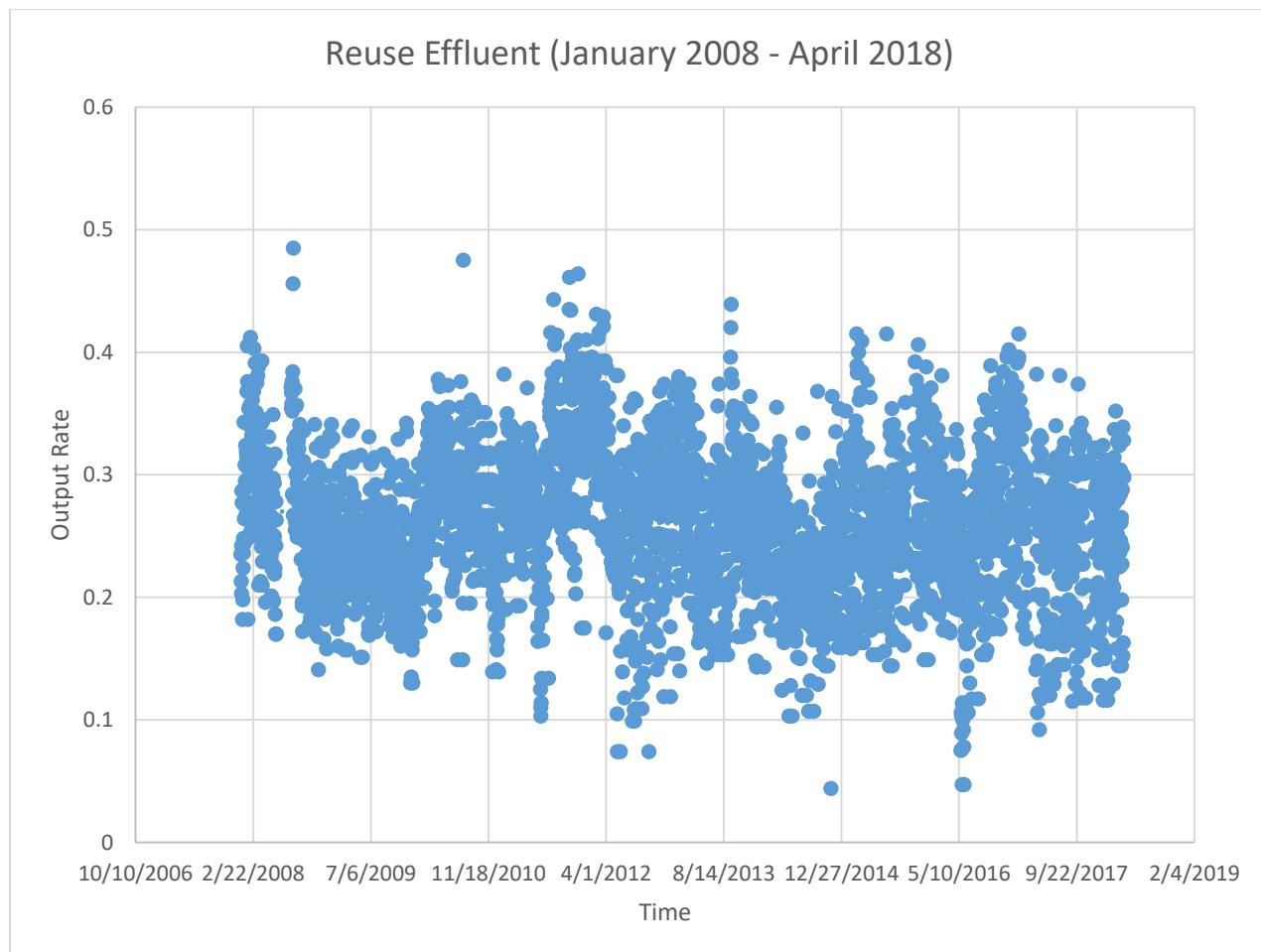
At the Los Alamos National Laboratory, the Strategic Computing Complex (SCC) requires chilled water to properly allow its supercomputers and other systems to properly function. In order to do so, the SCC heavily relies on the use of treated water from the Sanitary Waste Water System (SWWS) and the Sanitary Effluent Reclamation Facility (SERF). Industrial water that can be reused, such as from toilets and sinks, as well as rain and well water, arrives at the SWWS where it is aerated and processed. From there, a portion of the water can evaporate, while some of it is removed in the form of sludge or discharged into the nearby canyon. However, a majority of this reuse water is transported to SERF, where it is further processed and treated. Here is the location where this water becomes “usable” once again. From there, is transported to cooling towers where the water becomes chilled and can properly cool the supercomputers at the SCC. In fact, nearly all of the reuse water utilized by the SCC is treated and processed at SERF. This analysis specifically examines the water that leaves SWWS for SERF.

## **2. Purpose and Scope**

The over purpose of this Waste Water Model is to assess the availability of reuse water for the SCC, and based on this availability, seek methods to effectively and properly manage the water-supplying resources for the SCC. This report is primarily concerned with the water that is outputted from the SWWS in departure for SERF. In this analysis, the water output rates from SWWS are modeled and analyzed with respect to season and year. This analysis seeks to look for statistical significance between season/year and the water output rate, allowing for the characterization of variability among water output rates.

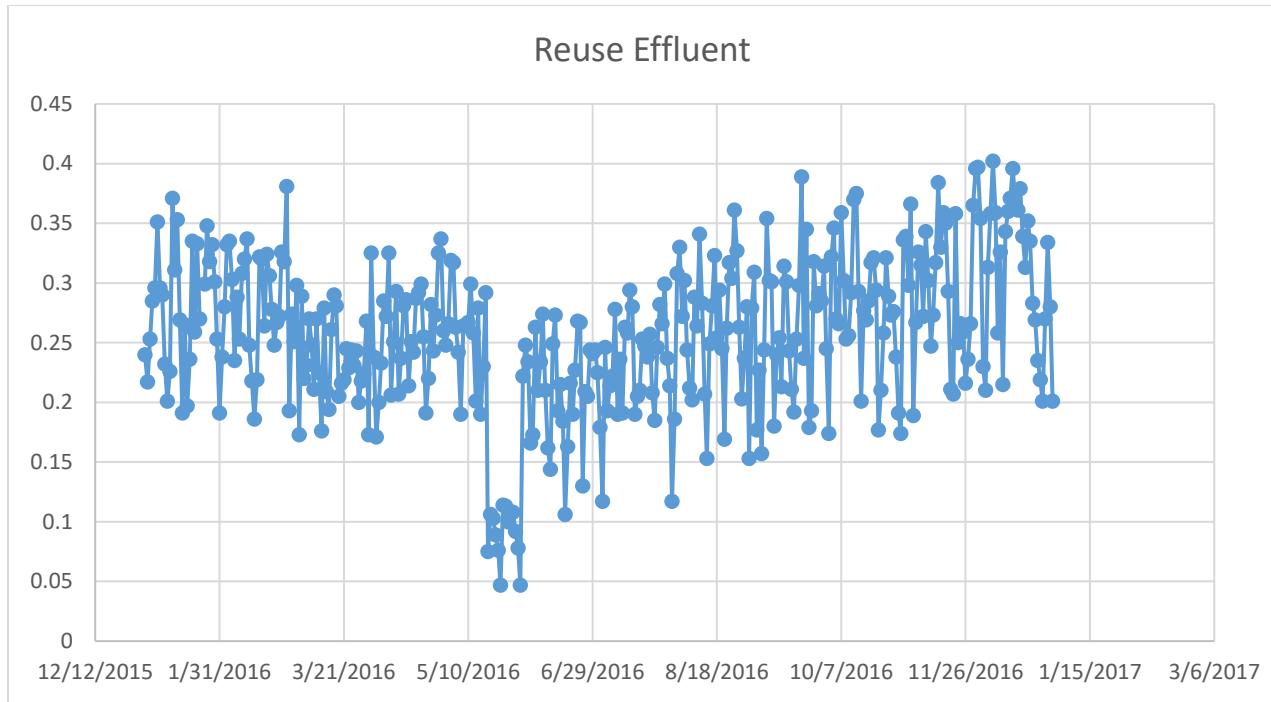
## **3. Data Collection**

Data of the water leaving the SWWS (Reuse Effluent) was collected over a time period of 10 years (from 2008-2018). Figure 1 displays the water output from January 2008 to April 2018. Note that not every month was reported in some years.



**Figure 1.** Reuse Effluent rate from SWWS from January 2008 to April 2018.

This data was then separated by year. Figure 2 (shown on the next page) displays the water output rate in the year 2016. A complete table of results can be found in a separate excel spreadsheet.



**Figure 2.** Reuse Effluent rate from 2016.

The line of best fit equation for this graph is  $y = -6E-06x + 0.5$ , where  $y$  is the output rate (reuse effluent) and  $x$  is time. The coefficient of determination  $R^2$  is **0.01**, indicating that roughly 1.11% of the variances are accounted for in the given data. This has a corresponding correlation coefficient  $R$  of about **0.12**.

#### 4. Calculations and Results

The data collected were used in various t-tests to determine the effect of various factors on the water output rate. Using Microsoft Excel, a two-tailed t-test of means with unequal variances was used to analyze the data in various scenarios. In all cases, the null hypothesis ( $H_0$ ) was that the two mean output rates would not differ in any case, and the alternative hypothesis ( $H_A$ ) was that these means would be different. A significant difference in means indicates that the factors that were considered (season, year, etc.) have a statistically significant impact on the water output rate. Additionally, the significance level was  $\alpha = 0.05$ , meaning that there was a 5% chance that the data incorrectly shows that there is a difference in the two means when there really is not.

All populations met the requirement condition for inference.

Random, Normal (large), Independent ( $N < 10n$ )

Mathematically speaking:

$H_0: \mu_1 - \mu_2 = 0$ , and  $H_A: \mu_1 - \mu_2 \neq 0$ , where  $\alpha = 0.05$

Where  $\mu_1$  is the average output rate of the first population, and  $\mu_2$  is the average output rate of the second population.

The first point of comparison for the output rates was the season, or overall temperature. We wanted to see whether the time of year had an impact on the water output rate. For this test, population 1 represented all water output rates from 2008-2017 in the months of December and January only. These months were selected because, on average, these two months reported the lowest temperatures in the town of Los Alamos. Subsequently, population 2 represented all water output rates from 2008-2017 in the months of June and July. These two months, on average, represent the highest temperatures in the town of Los Alamos. Note that for 2008, data for these two months were not reported, so the months of May and August were selected instead.

The results of a two-tailed t-test of means in Microsoft Excel are shown in Table 1, shown below. The p-value is highlighted in yellow.

<b>Results</b>	<b>Winter</b>	<b>Summer</b>
Mean	0.27	0.24
Variance	0.0039	0.0030
Observations	619	611
Hypothesized Mean Difference	0	
Degrees of Freedom	1212	
t Stat	6.94	
P(T<=t) one-tail	3.28E-12	
t Critical one-tail	1.65	
P(T<=t) two-tail	6.55E-12	
t Critical two-tail	1.96	

**Table 1.** t-test comparison of water outputs in winter and summer from 2008-2017.

A test comparing the water output rates in the fall and spring was also performed, following the same procedure described above. For the spring season, the months used were March and April. For the fall season, the data used were from September and October. Since no data for October was collected in 2015, and no data for March was collected in 2017, those months were replaced by May 2015 and November 2017, respectively. The results are shown in Table 2 (on the following page). Again, the p-value is highlighted in yellow.

<b>Results</b>	<b>Spring</b>	<b>Fall</b>
Mean	0.27	0.26
Variance	0.0030	0.0033
Observations	608	609
Hypothesized Mean Difference	0	
Degrees of Freedom	1212	
t Stat	3.05	
P( $T \leq t$ ) one-tail	0.0012	
t Critical one-tail	1.65	
P( $T \leq t$ ) two-tail	0.0023	
t Critical two-tail	1.96	

**Table 2.** t-test comparison of water outputs in spring and fall from 2008-2017.

As the previously tested seasons were not consecutive, we wanted to see if there would be a statistically significant difference in water output rates for two consecutive seasons. For this test, the two months of comparison were fall and winter. The months used for both seasons were identical to those of the previous two tests. Note that the months are not consecutive. The results are shown in Table 3.

<b>Results</b>	<b>Fall</b>	<b>Winter</b>
Mean	0.26	0.27
Variance	0.0033	0.0039
Observations	609	619
Hypothesized Mean Difference	0	
Degrees of Freedom	1220	
t Stat	-1.90	
P( $T \leq t$ ) one-tail	0.029	
t Critical one-tail	1.65	
P( $T \leq t$ ) two-tail	0.057	
t Critical two-tail	1.96	

**Table 3.** t-test comparison of water outputs in fall and winter from 2008-2017.

The next point of comparison was for the water output rates was the year. We wanted to see if a certain year had an impact on the water output rate. Although data for all ten years (2008-2018) was available, all years that did not contain water output rates for every month were omitted from this series of tests. The years that include an entire year's worth of data are 2009-2014 and 2016. The results from a comparison of the years 2009 and 2016 are in Table 4 on the following page. Table 5 compares the years 2010 and 2013. Tests comparing the other listed years were also performed.

<b>Results</b>	<b>2009 Water Output</b>	<b>2016 Water Output</b>
Mean	0.23	0.26
Variance	0.0016	0.0043
Observations	365	365
Hypothesized Mean Difference	0	
Degrees of Freedom	600	
t Stat	-6.18	
P(T<=t) one-tail	5.84E-10	
t Critical one-tail	1.65	
P(T<=t) two-tail	1.17E-09	
t Critical two-tail	1.96	

**Table 4.** t-test comparison of water outputs in 2009 and 2016.

<b>Results</b>	<b>2010 Water Output</b>	<b>2013 Water Output</b>
Mean	0.27	0.27
Variance	0.0024	0.0032
Observations	365	365
Hypothesized Mean Difference	0	
Degrees of Freedom	712	
t Stat	1.40	
P(T<=t) one-tail	0.081	
t Critical one-tail	1.65	
P(T<=t) two-tail	0.16	
t Critical two-tail	1.96	

**Table 5.** t-test comparison of water outputs in 2010 and 2013.

## 5. Deviance from the Mean

The standard deviation  $\sigma$  for each year from 2008 to 2018, as well as the standard deviation for the entire period is show in Table 6. Standard deviations from the t-test calculations are listed in the “Variance” tab in each respective table.

Time Period	Standard Deviation $\sigma$	Days Reported
10 Years (2008-2018)	0.059	3600
2008	0.057	305
2009	0.040	365
2010	0.049	365
2011	0.057	365
2012	0.069	366
2013	0.057	365
2014	0.046	365
2015	0.057	334
2016	0.065	366
2017	0.062	304
2018 (to April)	0.055	100

**Table 6.** Standard deviation of water output over a ten year period (January 2008 – April 2018).

From this table, it is clear that the standard deviations are generally constant among the ten year period, leading to the reasonable assumption of a constant standard deviation throughout the model.

## 6. Analysis of Results

For the seasonal comparison of winter and summer, the p-value is approximately  $6.55 \times 10^{-12}$ . As this is significantly less than our designated alpha level of 0.05, we reject our null hypothesis in favor of the alternative hypothesis and conclude that there exists a statistically significant difference in water output rates in the winter and summer for the years 2008-2017. Specifically, the average water output is greater in the winter than the summer. This is due to the fact that, in the winter, there is more net precipitation from snowfall. In the summer, there are typically monsoons which bring in heavy amounts of precipitation, but this is offset with the also heavy evaporation rates during dry summer periods.

Similar conclusions can be deduced for the fall and spring: since the p-value of about 0.002 is less than our alpha-level of 0.05, we can also reject our null hypothesis and

conclude that there is a statistically significant difference in water output rates in the spring and fall for the years 2008-2017.

For the consecutive seasons of fall and winter, as well as winter and spring, the p-value is about 0.0574, which is larger than our alpha level of 0.05. In this case, we fail to reject our null hypothesis, concluding that, for the aforementioned seasons, there is no statistically significant difference in water output rate. This is also the case when comparing the winter and spring seasons. However, such statistically significant difference **does** exist between all other consecutive seasons in the years 2008-2017. This presents an interesting relationship among the water output rates for consecutive and non-consecutive seasons.

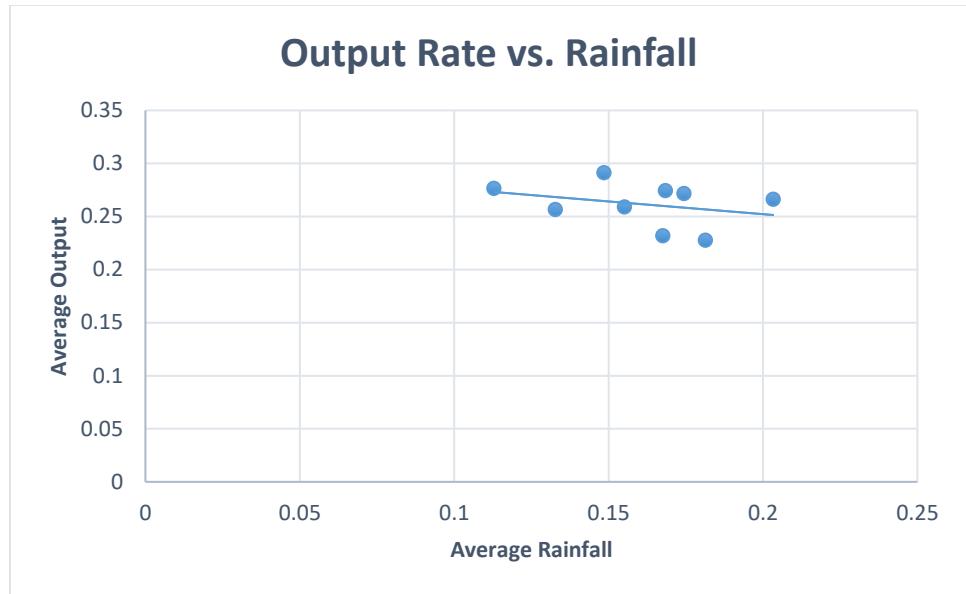
With regards to the yearly comparison between 2009 and 2016, the p-value is about  $1.17 \times 10^{-9}$ , also much less than the designated alpha level of 0.05. From this, we can also reject our null hypothesis and conclude that there exists a statistically significant difference between the water output rates in the years 2009 and 2016. Thus, based on these results, we can conclude that water output rates have a statistically significant change over the years, as 2009 and 2016 have the greatest time gap. Tests comparing other years were also performed, and a majority of the comparisons favored the alternative hypothesis, with only a small fraction of results that actually failed to reject the null hypothesis. These results could potentially be considered as outliers or coincidence, or similar nature patterns among the two years<sup>1</sup>.

## 7. Effect of Rainfall on Output Rate

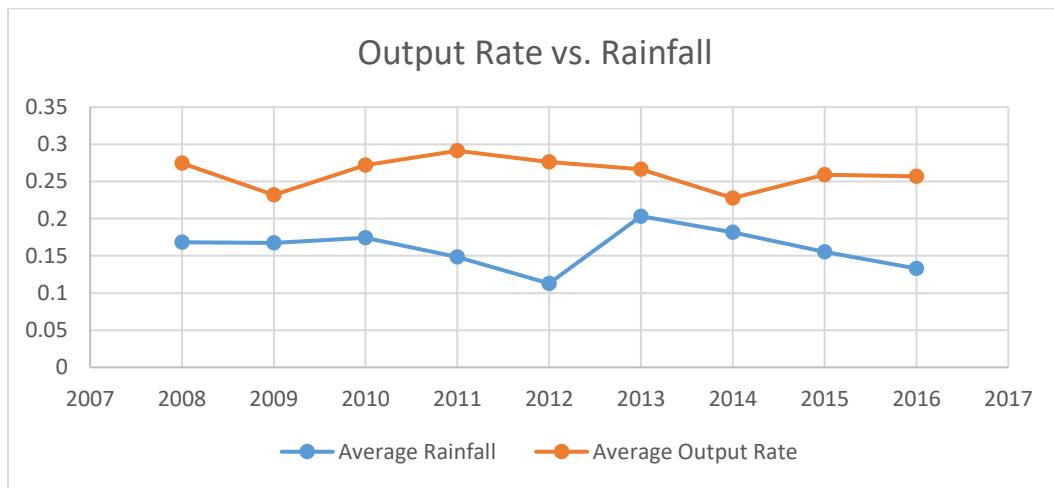
Based on the data presented above, it was predicted that the amount of rainfall could impact the water output rate. A season with greater rainfall could experience higher output rates since the water level is greater. The average rainfall for each year between 2008 and 2016 was selected and compared with the average output rates. The results are shown in Figures 3 and 4.

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<sup>1</sup> Not confirmed yet.



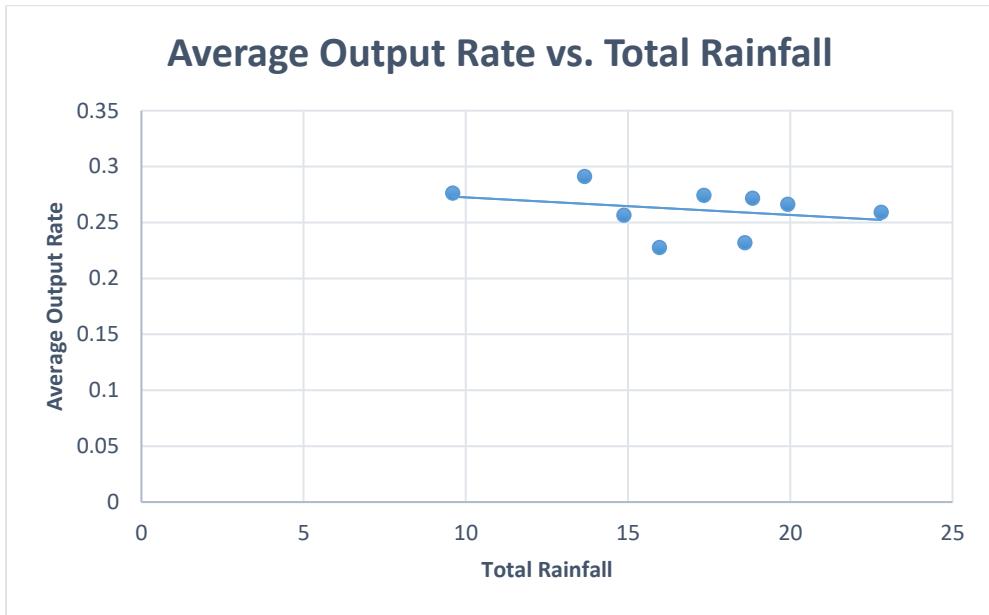
**Figure 3.** Average Output Rate vs. Average Rainfall (correlation plot)



**Figure 4.** Average Output Rate vs. Average Rainfall (comparison plot)

At first glance, Figure 3 appears to show a weak negative correlation between output rate and average yearly rainfall. Further tests show that the correlation coefficient  $r$  is roughly **-0.311**, confirming this. This suggests that, qualitatively, increased rainfall generally leads to decreased output rate. Quantitatively, the line of best fit equation is  $y = -0.2398x + 0.3002$ . Here  $y$  represents average output rate and  $x$  represents *average rainfall*.

An analysis of average output rate vs *total* rainfall was also performed, and the results are shown in Figure 5. Note that this is different from the results in Figure 3.



**Figure 5.** Average Output Rate vs. Total Rainfall (correlation plot)

For this plot, the measured correlation coefficient **R** is **-0.293**. This also indicates a weak negative correlation between average output rate and total rainfall, similar to its comparison with average rainfall. As such, the line of best fit equation is  $y = -0.0016x + 0.2882$ . Here  $y$  represents average output rate and  $x$  represents *total* rainfall. The coefficient of determination  $R^2$  is **0.09**, indicating that roughly 9% of the variances are accounted for in the given data.

It is important to note that not all days are accounted for in the rainfall data. Only certain days out of every year are included, which can significantly alter the above correlation patterns.

## 8. Conclusions and Future Considerations

The previous analysis elucidates the water output rate from SWWS, and characterizes it in both qualitatively and quantitatively. This allows us to conclude that, in the most general case, there exists a statistically significant difference between season or year and the water output rate from SWWS. These factors are primarily attributed to the amount of precipitation or evaporation that occurs during the course of a season, as well as differences in seasonal and yearly temperatures.

Based on this analysis, it is important to note that the water leaving SWWS and presumably arriving at the SCC is constantly changing. Therefore, it is important to develop methods to conserve water that vary from season to season. One cannot simply

just build a general predictive model based on the overall trend. Instead, one must account for these statistical differences with respect to season or year in order to build a model that can accurately predict water inflow to the SCC. These models will ultimately allow the SCC to function properly while also conserving water use.

## **9. Appendix of all Water Output Data from January 2008 – April 2018**

Date	Reuse Effluent (MGD)
1/1/2008	0.235
1/2/2008	0.213
1/3/2008	0.203
1/4/2008	0.242
1/5/2008	0.287
1/6/2008	0.277
1/7/2008	0.242
1/8/2008	0.182
1/9/2008	0.198
1/10/2008	0.224
1/11/2008	0.236
1/12/2008	0.248
1/13/2008	0.287
1/14/2008	0.343
1/15/2008	0.244
1/16/2008	0.264
1/17/2008	0.289
1/18/2008	0.308
1/19/2008	0.276
1/20/2008	0.295
1/21/2008	0.324
1/22/2008	0.247
1/23/2008	0.267
1/24/2008	0.319
1/25/2008	0.315
1/26/2008	0.342
1/27/2008	0.368
1/28/2008	0.405
1/29/2008	0.376
1/30/2008	0.314
1/31/2008	0.182

2/1/2008	0.305
2/2/2008	0.341
2/3/2008	0.354
2/4/2008	0.298
2/5/2008	0.277
2/6/2008	0.295
2/7/2008	0.321
2/8/2008	0.353
2/9/2008	0.357
2/10/2008	0.412
2/11/2008	0.299
2/12/2008	0.254
2/13/2008	0.311
2/14/2008	0.262
2/15/2008	0.368
2/16/2008	0.332
2/17/2008	0.374
2/18/2008	0.361
2/19/2008	0.313
2/20/2008	0.293
2/21/2008	0.321
2/22/2008	0.25
2/23/2008	0.32
2/24/2008	0.368
2/25/2008	0.403
2/26/2008	0.29
2/27/2008	0.306
2/28/2008	0.278
2/29/2008	0.348
3/1/2008	0.343
3/2/2008	0.391
3/3/2008	0.342
3/4/2008	0.327
3/5/2008	0.314
3/6/2008	0.351
3/7/2008	0.319
3/8/2008	0.375
3/9/2008	0.276
3/10/2008	0.298
3/11/2008	0.322
3/12/2008	0.381

3/13/2008	0.339
3/14/2008	0.306
3/15/2008	0.388
3/16/2008	0.21
3/17/2008	0.27
3/18/2008	0.306
3/19/2008	0.265
3/20/2008	0.321
3/21/2008	0.274
3/22/2008	0.295
3/23/2008	0.332
3/24/2008	0.26
3/25/2008	0.213
3/26/2008	0.269
3/27/2008	0.291
3/28/2008	0.342
3/29/2008	0.241
3/30/2008	0.393
3/31/2008	0.21
4/1/2008	0.298
4/2/2008	0.229
4/3/2008	0.252
4/4/2008	0.283
4/5/2008	0.305
4/6/2008	0.345
4/7/2008	0.244
4/8/2008	0.279
4/9/2008	0.276
4/10/2008	0.297
4/11/2008	0.287
4/12/2008	0.297
4/13/2008	0.301
4/14/2008	0.196
4/15/2008	0.301
4/16/2008	0.289
4/17/2008	0.314
4/18/2008	0.284
4/19/2008	0.317
4/20/2008	0.261
4/21/2008	0.258
4/22/2008	0.245

4/23/2008	0.244
4/24/2008	0.283
4/25/2008	0.309
4/26/2008	0.254
4/27/2008	0.331
4/28/2008	0.257
4/29/2008	0.235
4/30/2008	0.255
5/1/2008	0.28
5/2/2008	0.285
5/3/2008	0.251
5/4/2008	0.311
5/5/2008	0.246
5/6/2008	0.267
5/7/2008	0.228
5/8/2008	0.233
5/9/2008	0.201
5/10/2008	0.28
5/11/2008	0.237
5/12/2008	0.223
5/13/2008	0.227
5/14/2008	0.285
5/15/2008	0.297
5/16/2008	0.349
5/17/2008	0.281
5/18/2008	0.297
5/19/2008	0.197
5/20/2008	0.248
5/21/2008	0.25
5/22/2008	0.293
5/23/2008	0.219
5/24/2008	0.224
5/25/2008	0.186
5/26/2008	0.317
5/27/2008	0.17
5/28/2008	0.278
5/29/2008	0.242
5/30/2008	0.263
5/31/2008	0.17
8/1/2008	0.372
8/2/2008	0.367

8/3/2008	0.354
8/4/2008	0.358
8/5/2008	0.376
8/6/2008	0.284
8/7/2008	0.352
8/8/2008	0.384
8/9/2008	0.456
8/10/2008	0.485
8/11/2008	0.267
8/12/2008	0.328
8/13/2008	0.321
8/14/2008	0.319
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8/16/2008	0.312
8/17/2008	0.37
8/18/2008	0.318
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10/15/2008	0.211
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1/29/2011	0.303
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2/2/2011	0.322
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2/7/2011	0.266
2/8/2011	0.292
2/9/2011	0.299
2/10/2011	0.285
2/11/2011	0.336
2/12/2011	0.28
2/13/2011	0.289
2/14/2011	0.287
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3/2/2011	0.269
3/3/2011	0.326

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3/6/2011	0.327
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3/11/2011	0.31
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6/27/2011	0.125
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7/4/2011	0.266

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8/6/2011	0.347
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8/11/2011	0.349
8/12/2011	0.365
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9/8/2011	0.279
9/9/2011	0.334
9/10/2011	0.388
9/11/2011	0.34
9/12/2011	0.334
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11/2/2011	0.434
11/3/2011	0.234
11/4/2011	0.276

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11/6/2011	0.363
11/7/2011	0.334
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11/9/2011	0.361
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11/11/2011	0.28
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11/26/2011	0.367
11/27/2011	0.408
11/28/2011	0.325
11/29/2011	0.268
11/30/2011	0.333
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12/5/2011	0.337
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12/7/2011	0.349
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12/9/2011	0.382
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12/12/2011	0.377
12/13/2011	0.386
12/14/2011	0.308
12/15/2011	0.367

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12/17/2011	0.31
12/18/2011	0.379
12/19/2011	0.175
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12/21/2011	0.365
12/22/2011	0.326
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12/25/2011	0.269
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2/7/2013	0.14
2/8/2013	0.304
2/9/2013	0.344
2/10/2013	0.282
2/11/2013	0.218
2/12/2013	0.346
2/13/2013	0.268
2/14/2013	0.358
2/15/2013	0.345
2/16/2013	0.343
2/17/2013	0.317
2/18/2013	0.266
2/19/2013	0.29
2/20/2013	0.334
2/21/2013	0.364
2/22/2013	0.293
2/23/2013	0.352
2/24/2013	0.21
2/25/2013	0.335
2/26/2013	0.343
2/27/2013	0.344
2/28/2013	0.361
3/1/2013	0.297
3/2/2013	0.282
3/3/2013	0.23
3/4/2013	0.334
3/5/2013	0.303
3/6/2013	0.253
3/7/2013	0.26
3/8/2013	0.3
3/9/2013	0.236
3/10/2013	0.276

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3/12/2013	0.362
3/13/2013	0.342
3/14/2013	0.363
3/15/2013	0.263
3/16/2013	0.286
3/17/2013	0.195
3/18/2013	0.226
3/19/2013	0.374
3/20/2013	0.286
3/21/2013	0.348
3/22/2013	0.336
3/23/2013	0.267
3/24/2013	0.209
3/25/2013	0.325
3/26/2013	0.334
3/27/2013	0.347
3/28/2013	0.309
3/29/2013	0.3
3/30/2013	0.244
3/31/2013	0.195
4/1/2013	0.239
4/2/2013	0.298
4/3/2013	0.351
4/4/2013	0.299
4/5/2013	0.302
4/6/2013	0.24
4/7/2013	0.234
4/8/2013	0.308
4/9/2013	0.313
4/10/2013	0.353
4/11/2013	0.265
4/12/2013	0.224
4/13/2013	0.275
4/14/2013	0.185
4/15/2013	0.28
4/16/2013	0.281
4/17/2013	0.294
4/18/2013	0.325
4/19/2013	0.286
4/20/2013	0.215

4/21/2013	0.228
4/22/2013	0.35
4/23/2013	0.297
4/24/2013	0.31
4/25/2013	0.304
4/26/2013	0.288
4/27/2013	0.207
4/28/2013	0.163
4/29/2013	0.308
4/30/2013	0.286
5/1/2013	0.33
5/2/2013	0.215
5/3/2013	0.233
5/4/2013	0.175
5/5/2013	0.168
5/6/2013	0.233
5/7/2013	0.246
5/8/2013	0.246
5/9/2013	0.252
5/10/2013	0.205
5/11/2013	0.183
5/12/2013	0.24
5/13/2013	0.255
5/14/2013	0.201
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5/18/2013	0.252
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5/21/2013	0.246
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5/24/2013	0.218
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5/26/2013	0.171
5/27/2013	0.253
5/28/2013	0.23
5/29/2013	0.263
5/30/2013	0.242
5/31/2013	0.168

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6/2/2013	0.146
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6/8/2013	0.228
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6/15/2013	0.214
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6/17/2013	0.206
6/18/2013	0.223
6/19/2013	0.206
6/20/2013	0.24
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6/23/2013	0.25
6/24/2013	0.221
6/25/2013	0.21
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7/6/2013	0.153
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7/10/2013	0.222
7/11/2013	0.22

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8/12/2013	0.155
8/13/2013	0.159
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9/18/2013	0.351
9/19/2013	0.327
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9/27/2013	0.217
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9/29/2013	0.279
9/30/2013	0.331
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2/19/2015	0.238
2/20/2015	0.247
2/21/2015	0.2
2/22/2015	0.239
2/23/2015	0.263
2/24/2015	0.279
2/25/2015	0.336
2/26/2015	0.311
2/27/2015	0.344
2/28/2015	0.177
3/1/2015	0.235
3/2/2015	0.415
3/3/2015	0.389
3/4/2015	0.383
3/5/2015	0.283
3/6/2015	0.275
3/7/2015	0.173
3/8/2015	0.233
3/9/2015	0.327
3/10/2015	0.4
3/11/2015	0.309
3/12/2015	0.361
3/13/2015	0.239
3/14/2015	0.277
3/15/2015	0.188
3/16/2015	0.306
3/17/2015	0.26
3/18/2015	0.317

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3/20/2015	0.322
3/21/2015	0.19
3/22/2015	0.163
3/23/2015	0.384
3/24/2015	0.409
3/25/2015	0.317
3/26/2015	0.256
3/27/2015	0.299
3/28/2015	0.223
3/29/2015	0.187
3/30/2015	0.298
3/31/2015	0.163
4/1/2015	0.321
4/2/2015	0.259
4/3/2015	0.235
4/4/2015	0.189
4/5/2015	0.22
4/6/2015	0.24
4/7/2015	0.299
4/8/2015	0.278
4/9/2015	0.293
4/10/2015	0.251
4/11/2015	0.227
4/12/2015	0.221
4/13/2015	0.289
4/14/2015	0.242
4/15/2015	0.294
4/16/2015	0.322
4/17/2015	0.377
4/18/2015	0.249
4/19/2015	0.249
4/20/2015	0.244
4/21/2015	0.279
4/22/2015	0.289
4/23/2015	0.294
4/24/2015	0.181
4/25/2015	0.209
4/26/2015	0.198
4/27/2015	0.363
4/28/2015	0.208

4/29/2015	0.272
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5/1/2015	0.215
5/2/2015	0.173
5/3/2015	0.188
5/4/2015	0.254
5/5/2015	0.236
5/6/2015	0.234
5/7/2015	0.285
5/8/2015	0.213
5/9/2015	0.2
5/10/2015	0.153
5/11/2015	0.265
5/12/2015	0.299
5/13/2015	0.301
5/14/2015	0.262
5/15/2015	0.295
5/16/2015	0.255
5/17/2015	0.194
5/18/2015	0.259
5/19/2015	0.246
5/20/2015	0.222
5/21/2015	0.226
5/22/2015	0.274
5/23/2015	0.179
5/24/2015	0.199
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5/27/2015	0.294
5/28/2015	0.214
5/29/2015	0.183
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6/3/2015	0.272
6/4/2015	0.283
6/5/2015	0.214
6/6/2015	0.237
6/7/2015	0.177
6/8/2015	0.264

6/9/2015	0.233
6/10/2015	0.293
6/11/2015	0.258
6/12/2015	0.216
6/13/2015	0.177
6/14/2015	0.199
6/15/2015	0.282
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6/19/2015	0.237
6/20/2015	0.215
6/21/2015	0.227
6/22/2015	0.237
6/23/2015	0.228
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6/26/2015	0.278
6/27/2015	0.194
6/28/2015	0.156
6/29/2015	0.234
6/30/2015	0.236
7/1/2015	0.212
7/2/2015	0.242
7/3/2015	0.177
7/4/2015	0.229
7/5/2015	0.217
7/6/2015	0.294
7/7/2015	0.415
7/8/2015	0.297
7/9/2015	0.26
7/10/2015	0.277
7/11/2015	0.192
7/12/2015	0.182
7/13/2015	0.225
7/14/2015	0.292
7/15/2015	0.264
7/16/2015	0.269
7/17/2015	0.262
7/18/2015	0.207
7/19/2015	0.144

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7/21/2015	0.34
7/22/2015	0.333
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7/24/2015	0.28
7/25/2015	0.173
7/26/2015	0.173
7/27/2015	0.227
7/28/2015	0.32
7/29/2015	0.293
7/30/2015	0.354
7/31/2015	0.144
8/1/2015	0.275
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8/10/2015	0.291
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8/12/2015	0.2
8/13/2015	0.209
8/14/2015	0.23
8/15/2015	0.235
8/16/2015	0.204
8/17/2015	0.321
8/18/2015	0.26
8/19/2015	0.231
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8/23/2015	0.255
8/24/2015	0.273
8/25/2015	0.279
8/26/2015	0.331
8/27/2015	0.246
8/28/2015	0.318
8/29/2015	0.25

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8/31/2015	0.165
9/1/2015	0.226
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9/20/2015	0.184
9/21/2015	0.21
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9/28/2015	0.252
9/29/2015	0.236
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11/4/2015	0.338
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11/6/2015	0.297
11/7/2015	0.232
11/8/2015	0.184
11/9/2015	0.324

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11/22/2015	0.269
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12/17/2015	0.347
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12/19/2015	0.296
12/20/2015	0.307

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1/24/2016	
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1/26/2016	0.348
1/27/2016	0.318
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1/29/2016	0.301
1/30/2016	0.253

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2/7/2016	0.288
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2/9/2016	0.308
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2/11/2016	0.337
2/12/2016	0.248
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2/15/2016	0.219
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5/17/2016	0.292
5/18/2016	0.075
5/19/2016	0.106
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5/21/2016	0.089
5/22/2016	0.076
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5/24/2016	0.114
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5/26/2016	0.1
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5/28/2016	0.108
5/29/2016	0.092
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6/1/2016	0.222

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6/7/2016	0.21
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5/1/2017	0.274
5/2/2017	0.256
5/3/2017	0.259
5/4/2017	0.259
5/5/2017	0.234
5/6/2017	0.186
5/7/2017	0.12
5/8/2017	0.283
5/9/2017	0.278
5/10/2017	0.307
5/11/2017	0.279
5/12/2017	0.224
5/13/2017	0.131
5/14/2017	0.182
5/15/2017	0.247
5/16/2017	0.231
5/17/2017	0.251
5/18/2017	0.257
5/19/2017	0.25
5/20/2017	0.169
5/21/2017	0.173
5/22/2017	0.256
5/23/2017	0.261
5/24/2017	0.27
5/25/2017	0.268
5/26/2017	0.137

5/27/2017	0.167
5/28/2017	0.176
5/29/2017	0.162
5/30/2017	0.265
5/31/2017	0.12
6/1/2017	0.239
6/2/2017	0.305
6/3/2017	0.141
6/4/2017	0.176
6/5/2017	0.262
6/6/2017	0.257
6/7/2017	0.282
6/8/2017	0.289
6/9/2017	0.182
6/10/2017	0.162
6/11/2017	0.173
6/12/2017	0.267
6/13/2017	0.256
6/14/2017	0.235
6/15/2017	0.268
6/16/2017	0.282
6/17/2017	0.129
6/18/2017	0.137
6/19/2017	0.272
6/20/2017	0.274
6/21/2017	0.264
6/22/2017	0.266
6/23/2017	0.294
6/24/2017	0.234
6/25/2017	0.236
6/26/2017	0.34
6/27/2017	0.314
6/28/2017	0.275
6/29/2017	0.314
6/30/2017	0.263
7/1/2017	0.195
7/2/2017	0.29
7/3/2017	0.228
7/4/2017	0.145
7/5/2017	0.233
7/6/2017	0.231

7/7/2017	0.239
7/8/2017	0.248
7/9/2017	0.217
7/10/2017	0.279
7/11/2017	0.381
7/12/2017	0.307
7/13/2017	0.302
7/14/2017	0.27
7/15/2017	0.166
7/16/2017	0.217
7/17/2017	0.287
7/18/2017	0.253
7/19/2017	0.241
7/20/2017	0.227
7/21/2017	0.295
7/22/2017	0.211
7/23/2017	0.173
7/24/2017	0.31
7/25/2017	0.259
7/26/2017	0.32
7/27/2017	0.277
7/28/2017	0.282
7/29/2017	0.192
7/30/2017	0.16
7/31/2017	0.145
8/1/2017	0.326
8/2/2017	0.236
8/3/2017	0.223
8/4/2017	0.22
8/5/2017	0.211
8/6/2017	0.181
8/7/2017	0.254
8/8/2017	0.23
8/9/2017	0.238
8/10/2017	0.3
8/11/2017	0.267
8/12/2017	0.282
8/13/2017	0.229
8/14/2017	0.31
8/15/2017	0.237
8/16/2017	0.249

8/17/2017	0.274
8/18/2017	0.254
8/19/2017	0.198
8/20/2017	0.175
8/21/2017	0.262
8/22/2017	0.287
8/23/2017	0.272
8/24/2017	0.302
8/25/2017	0.219
8/26/2017	0.196
8/27/2017	0.182
8/28/2017	0.246
8/29/2017	0.279
8/30/2017	0.268
8/31/2017	0.175
9/1/2017	0.229
9/2/2017	0.217
9/3/2017	0.115
9/4/2017	0.187
9/5/2017	0.239
9/6/2017	0.235
9/7/2017	0.223
9/8/2017	0.274
9/9/2017	0.178
9/10/2017	0.165
9/11/2017	0.179
9/12/2017	0.238
9/13/2017	0.278
9/14/2017	0.262
9/15/2017	0.27
9/16/2017	0.129
9/17/2017	0.192
9/18/2017	0.261
9/19/2017	0.31
9/20/2017	0.299
9/21/2017	0.335
9/22/2017	0.226
9/23/2017	0.151
9/24/2017	0.139
9/25/2017	0.278
9/26/2017	0.258

9/27/2017	0.326
9/28/2017	0.374
9/29/2017	0.331
9/30/2017	0.321
10/1/2017	0.179
10/2/2017	0.277
10/3/2017	0.273
10/4/2017	0.256
10/5/2017	0.335
10/6/2017	0.304
10/7/2017	0.162
10/8/2017	0.122
10/9/2017	0.118
10/10/2017	0.283
10/11/2017	0.342
10/12/2017	0.25
10/13/2017	0.232
10/14/2017	0.207
10/15/2017	0.16
10/16/2017	0.268
10/17/2017	0.282
10/18/2017	0.309
10/19/2017	0.277
10/20/2017	0.227
10/21/2017	0.171
10/22/2017	0.156
10/23/2017	0.252
10/24/2017	0.301
10/25/2017	0.329
10/26/2017	0.311
10/27/2017	0.282
10/28/2017	0.184
10/29/2017	0.21
10/30/2017	0.251
10/31/2017	0.118
12/1/2017	0.209
12/2/2017	0.165
12/3/2017	0.19
12/4/2017	0.257
12/5/2017	0.322
12/6/2017	0.318

12/7/2017	0.306
12/8/2017	0.236
12/9/2017	0.191
12/10/2017	0.168
12/11/2017	0.275
12/12/2017	0.299
12/13/2017	0.289
12/14/2017	0.291
12/15/2017	0.286
12/16/2017	0.303
12/17/2017	0.199
12/18/2017	0.292
12/19/2017	0.322
12/20/2017	0.281
12/21/2017	0.292
12/22/2017	0.212
12/23/2017	0.197
12/24/2017	0.206
12/25/2017	0.149
12/26/2017	0.128
12/27/2017	0.163
12/28/2017	0.243
12/29/2017	0.172
12/30/2017	0.228
12/31/2017	0.128
1/1/2018	0.174
1/2/2018	0.268
1/3/2018	0.272
1/4/2018	0.248
1/5/2018	0.245
1/6/2018	0.162
1/7/2018	0.184
1/8/2018	0.304
1/9/2018	0.263
1/10/2018	0.294
1/11/2018	0.324
1/12/2018	0.3
1/13/2018	0.116
1/14/2018	0.194
1/15/2018	0.244
1/16/2018	0.294

1/17/2018	0.23
1/18/2018	0.287
1/19/2018	0.279
1/20/2018	0.208
1/21/2018	0.15
1/22/2018	0.157
1/23/2018	0.312
1/24/2018	0.285
1/25/2018	0.301
1/26/2018	0.278
1/27/2018	0.254
1/28/2018	0.188
1/29/2018	0.233
1/30/2018	0.27
1/31/2018	0.116
2/1/2018	0.259
2/2/2018	0.236
2/3/2018	0.205
2/4/2018	0.125
2/5/2018	0.261
2/6/2018	0.254
2/7/2018	0.274
2/8/2018	0.251
2/9/2018	0.224
2/10/2018	0.19
2/11/2018	0.258
2/12/2018	0.29
2/13/2018	0.297
2/14/2018	0.257
2/15/2018	0.27
2/16/2018	0.271
2/17/2018	0.212
2/18/2018	0.218
2/19/2018	0.239
2/20/2018	0.276
2/21/2018	0.276
2/22/2018	0.301
2/23/2018	0.245
2/24/2018	0.2
2/25/2018	0.129
2/26/2018	0.208

2/27/2018	0.276
2/28/2018	0.314
3/1/2018	0.337
3/2/2018	0.195
3/3/2018	0.243
3/4/2018	0.173
3/5/2018	0.289
3/6/2018	0.352
3/7/2018	0.28
3/8/2018	0.305
3/9/2018	0.255
3/10/2018	0.18
3/11/2018	0.158
3/12/2018	0.226
3/13/2018	0.288
3/14/2018	0.327
3/15/2018	0.251
3/16/2018	0.28
3/17/2018	0.26
3/18/2018	0.144
3/19/2018	0.228
3/20/2018	0.287
3/21/2018	0.283
3/22/2018	0.295
3/23/2018	0.324
3/24/2018	0.225
3/25/2018	0.237
3/26/2018	0.284
3/27/2018	0.304
3/28/2018	0.246
3/29/2018	0.261
3/30/2018	0.265
3/31/2018	0.144
4/1/2018	0.198
4/2/2018	0.227
4/3/2018	0.241
4/4/2018	0.288
4/5/2018	0.3
4/6/2018	0.339
4/7/2018	0.152
4/8/2018	0.163

4/9/2018	0.328
4/10/2018	0.298